LEE
DECODER HAVING DIGITAL IMAGE STABILIZATION FUNCTION AND DIGITAL IMAGE STABILIZATION METHOD
Filed : June 25, 2001
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1 of 5
Q65101
202-293-7060

FIG. 1
(PRIOR ART)

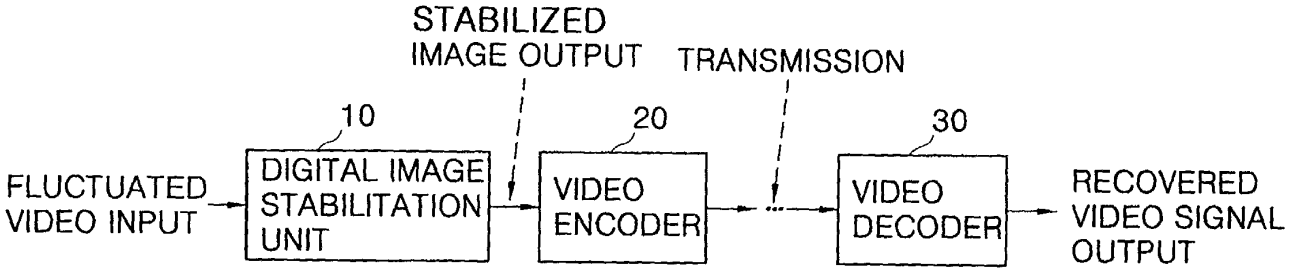


FIG. 2
(PRIOR ART)

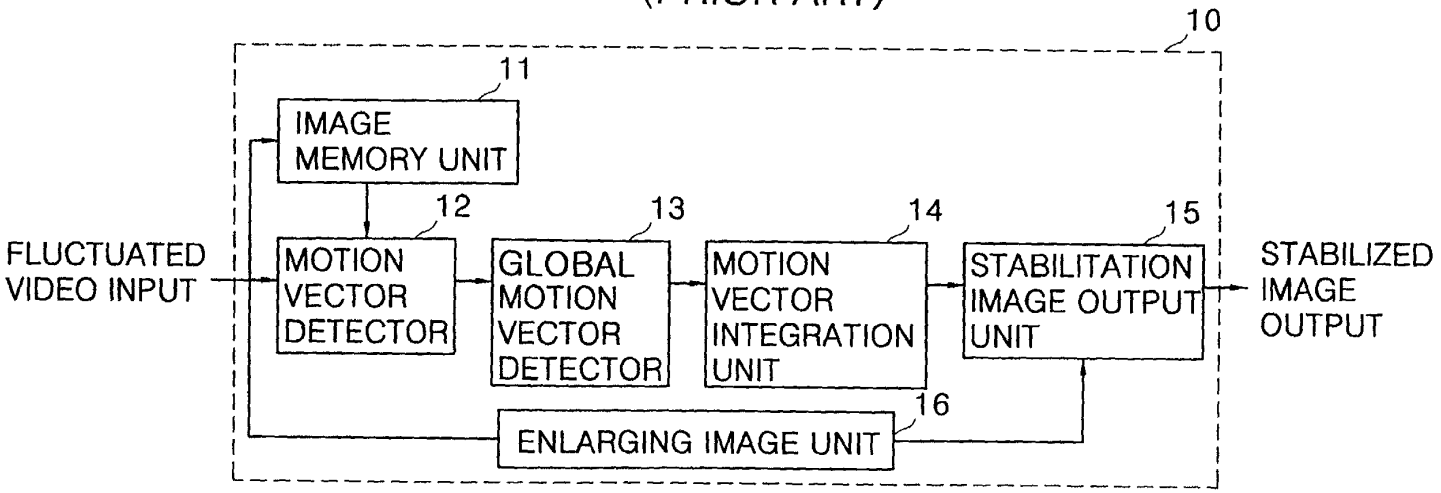


FIG. 3

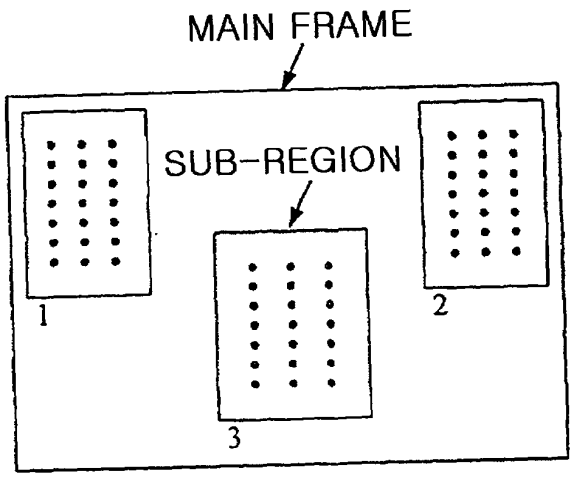

MAIN FRAME
SUB-REGION
1
2
3

FIG. 4

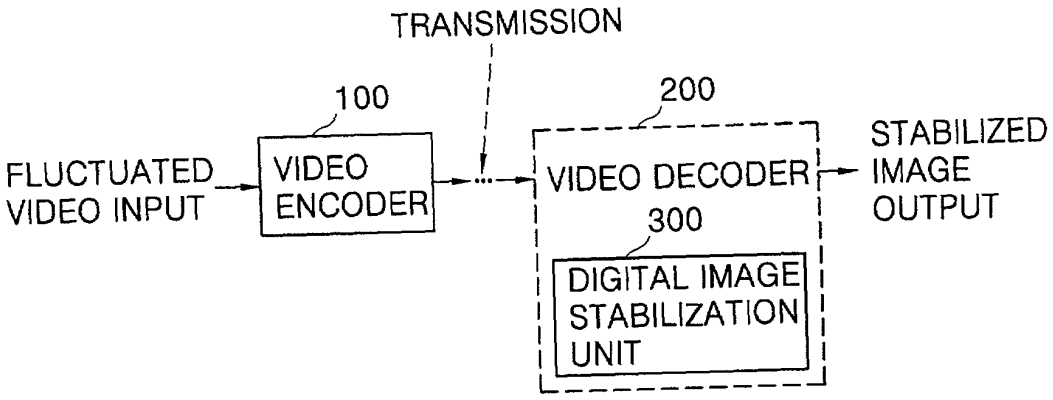

TRANSMISSION
100
200
FLUCTUATED VIDEO INPUT
VIDEO ENCODER
VIDEO DECODER
STABILIZED IMAGE OUTPUT
300
DIGITAL IMAGE STABILIZATION UNIT

FIG. 5

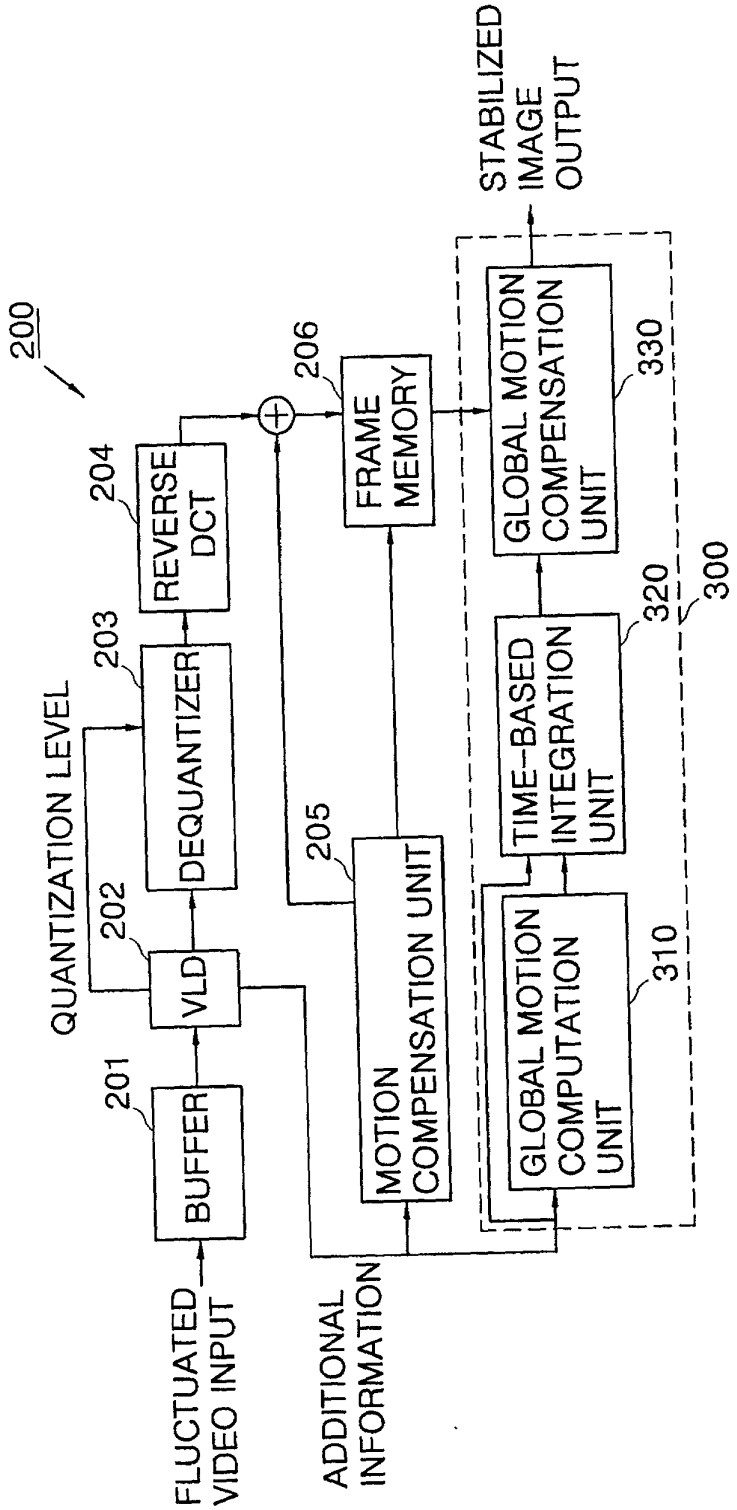

200
FLUCTUATED VIDEO INPUT
ADDITIONAL INFORMATION
STABILIZED IMAGE OUTPUT
201
BUFFER
202
VLD
QUANTIZATION LEVEL
203
DEQUANTIZER
204
REVERSE DCT
205
206
FRAME MEMORY
MOTION COMPENSATION UNIT
300
310
GLOBAL MOTION COMPUTATION UNIT
320
TIME-BASED INTEGRATION UNIT
330
GLOBAL MOTION COMPENSATION UNIT

FIG. 6

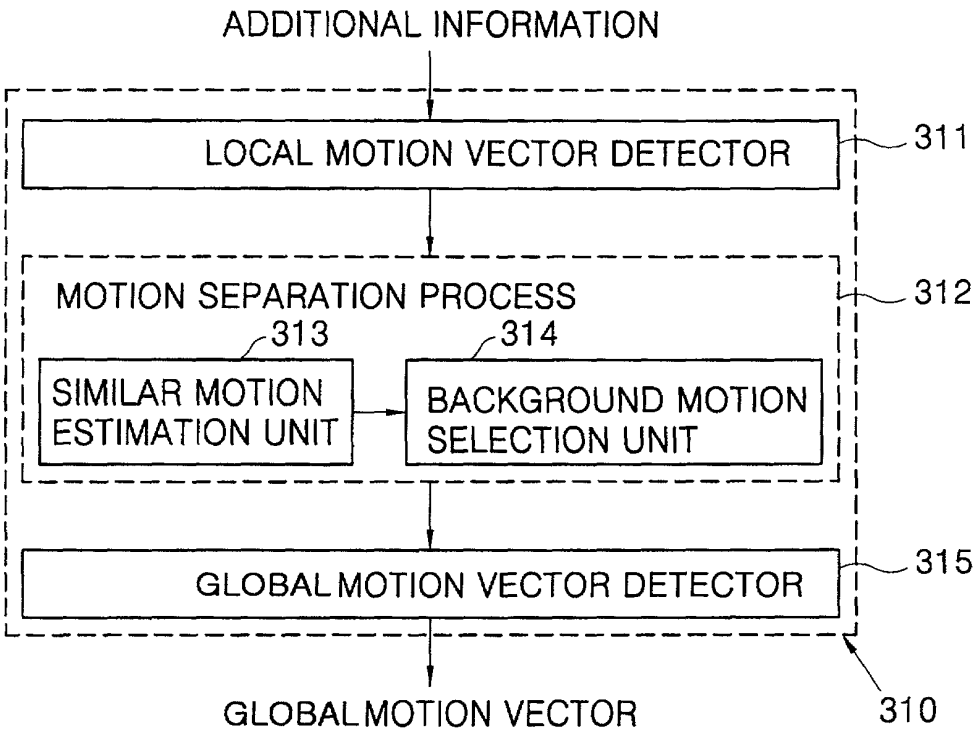

ADDITIONAL INFORMATION
LOCAL MOTION VECTOR DETECTOR
311
MOTION SEPARATION PROCESS
312
313
314
SIMILAR MOTION ESTIMATION UNIT
BACKGROUND MOTION SELECTION UNIT
GLOBAL MOTION VECTOR DETECTOR
315
GLOBAL MOTION VECTOR
310

FIG. 7

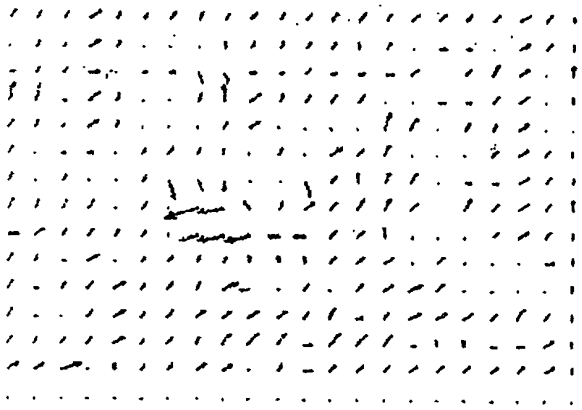


FIG. 8

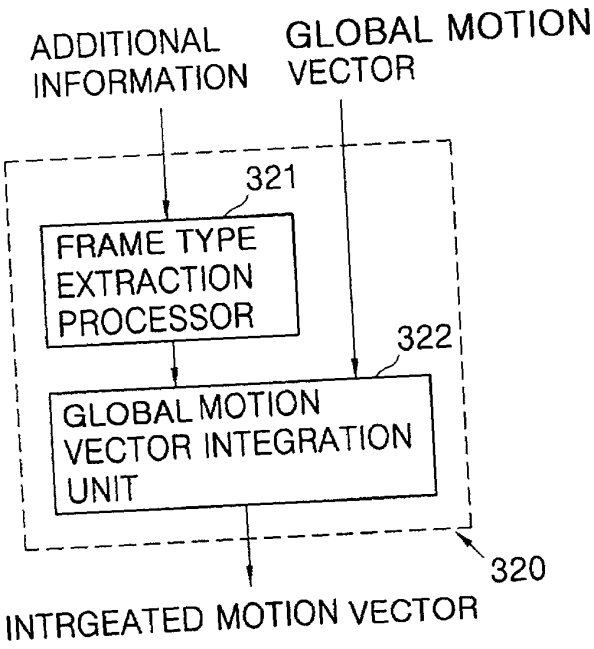
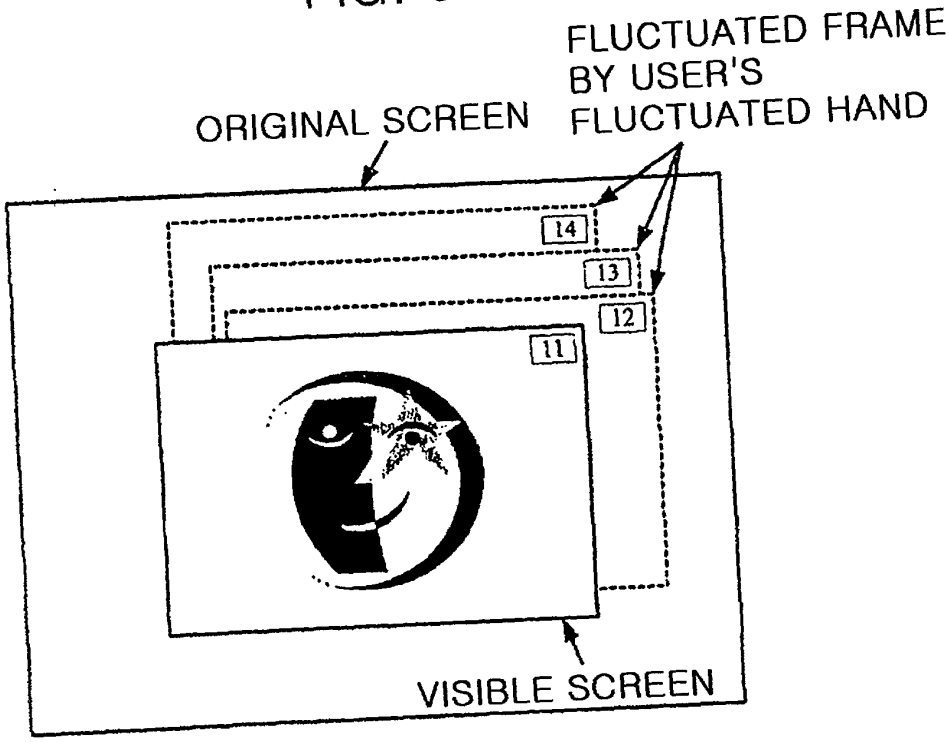

ADDITIONAL INFORMATION
GLOBAL MOTION VECTOR
321
FRAME TYPE EXTRACTION PROCESSOR
322
GLOBAL MOTION VECTOR INTEGRATION UNIT
320
INTRGEATED MOTION VECTOR

FIG. 9


FLUCTUATED FRAME BY USER'S FLUCTUATED HAND
ORIGINAL SCREEN
14
13
12
11
VISIBLE SCREEN